CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-9/618f/CEMENT/2014-15 Date: 08.09.2014

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Technical Manager,** KRIDL, Bangalore.
***NAME OF THE WORK**	:	Improvements to roads and drains at Maruthinagara, Kothihosahalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
*** REFERENCE**	:	AEE/K/WO/605/2014-15 Dated: 05.09.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.09.2014
PERIOD OF TESTING	:	05.09.2014 to 08.09.2014

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
2	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-9/618f/SAND-Gradation/2014-15 : 08.09.2014

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES (SAND)

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Improvements to roads and drains at Maruthinagara, Kothihosahalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/K/WO/605/2014-15 Dated: 05.09.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates (Sand)

Sample Received on : 05.09.2014

Date of Testing : 08.09.2014

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	0	0	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	77.20	60-95	75-100	85-100	95-100
1.18	57.80	30-70	55-90	75-100	90-100
600 Micron	36.60	15-34	35-59	60-79	80-100
300 Micron	12.80	5-20	8-30	12-40	15-50
150 Micron	3.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-9/618f/AGG/GR/2014-15 : 08.09.2014

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager,** KRIDL, Bangalore.

*** Name of Work** : Improvements to roads and drains at Maruthinagara, Kothihosahalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/K/WO/605/2014-15 Dated: 05.09.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 05.09.2014

Date of Testing : 08.09.2014

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single sized
80	100	100	-
63	100	-	100
40	96.17	95-100	85-100
20	51.32	30-70	0-20
10	17.76	10-35	0-5
4.75	1.59	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

Civil-Tech Consultants & Engineers Bangalore

VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KRIDL/STEEL/2014-15 08.09.2014

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements to roads and drains at Maruthinagara, Kothihosahalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/K/WO/605/2014-15 Dated: 05.09.2014
Date of Test	:	08.09.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.15	O.K	O.K

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/KRIDL/CSR-9/618f/CUBE/2014-15 15.10.2014

TEST REPORT ON CONCRETE CUBES

*** Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	: **Technical Manager,** KRIDL, Bangalore.
*** Name of the work**	: Improvements to roads and drains at Maruthinagara, Kothihosahalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
*** Reference**	: AEE/K/WO/605/2014-15 Dated: 05.09.2014
*** Sample ID**	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*** Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 27.10.2014

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.09.2014	15.10.2014	8.216	502.8	22.35
2	17.09.2014	15.10.2014	8.325	523.4	23.26
3	17.09.2014	15.10.2014	8.147	479.6	21.32

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

VISHWANATH .C
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com